

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently amended) A method of processing [[an]] a workflow action within a schedule and having a latency attribute associated therewith, comprising:
initiating the workflow action;
comparing the latency attribute that is associated with the workflow action with a latency threshold; and
selectively storing data associated with a schedule in a storage medium based on the latency comparison.
2. (Original) The method of claim 1, further comprising creating an association between the stored data and a signal.
3. (Original) The method of claim 2, further comprising suspending execution of the schedule based on the latency comparison.
4. (Original) The method of claim 3, further comprising selectively de-allocating resources associated with the schedule after suspending execution of the schedule.
5. (Original) The method of claim 3, further comprising selectively resuming execution of the schedule based on the signal.
6. (Original) The method of claim 4, further comprising selectively allocating computer system resources for execution of the schedule based on the signal, and selectively resuming execution of the schedule based on the signal.

7. (Original) The method of claim 1, further comprising adjusting the latency attribute according to a variable.
8. (Currently amended) The method of claim 7, wherein the variable is related to the actual latency for completion of the workflow action.
9. (Original) The method of claim 1, wherein the data comprises schedule state information.
10. (Original) The method of claim 1, further comprising adjusting the latency threshold based on a variable.
11. (Currently amended) A method of executing a schedule, the schedule comprising a schedule state, at least one transaction having [[an]] a workflow action associated therewith, the action having a latency attribute associated therewith, the method comprising:
 - initiating the workflow action according to the schedule;
 - comparing the latency attribute with a latency threshold; and
 - selectively storing the schedule state in a storage medium based on the latency comparison.
12. (Original) The method of claim 11, further comprising creating an association between the stored schedule state and a signal.
13. (Original) The method of claim 12, further comprising suspending execution of the schedule based on the latency comparison.
14. (Original) The method of claim 13, further comprising selectively de-allocating resources associated with the schedule after storing the schedule state in the storage medium.
15. (Original) The method of claim 13, further comprising selectively resuming execution of the schedule based on the signal.

16. (Original) The method of claim 15, further comprising selectively allocating computer system resources for execution of the schedule based on the signal, and selectively resuming execution of the schedule based on the signal.
17. (Currently amended) The method of claim 11, wherein the schedule includes a plurality of workflow actions and at least one of the workflow actions has an associated latency attribute.
18. (Currently amended) The method of claim 17, wherein the latency attribute represents an estimated latency for completion of the associated workflow action.
19. (Original) The method of claim 17, further comprising adjusting at least one of the latency attributes according to a variable.
20. (Currently amended) The method of claim 19, wherein the variable is related to an actual latency for completion of the associated workflow action.
21. (Currently amended) The method of claim 17, wherein the latency attributes have a class associated therewith, and wherein the class indicates a grouping of workflow actions.
22. (Original) The method of claim 21, further comprising providing a plurality of latency thresholds, wherein each latency threshold has a class associated therewith, and selectively comparing a latency attribute with a latency threshold having the same class upon initiating the action associated with the latency attribute.
23. (Original) The method of claim 22, further comprising adjusting at least one of the latency thresholds based on a variable.
24. (Original) The method of claim 23, wherein the variable is related to system resource utilization.

25. (Original) The method of claim 11, further comprising adjusting the latency threshold based on a variable.
26. (Original) The method of claim 11, further comprising selectively storing the schedule state in a database schema based on the latency comparison.
27. (Original) The method of claim 11, wherein the schedule state comprises a schedule location and active data.
28. (Currently amended) The method of claim 11, wherein the workflow action has a compensation parameter associated therewith, further comprising selectively compensating the workflow action based on the compensation parameter, a transaction boundary within the schedule, and a state associated with another workflow action within the schedule.
29. (Currently amended) The method of claim 11, further comprising selectively compensating a first workflow action according to a transaction boundary within the schedule and a compensation parameter associated with the first workflow action, based on abortion of a second workflow action within the schedule.
30. (Currently amended) A method of executing a schedule, the schedule comprising a schedule state, at least one transaction with an a workflow action associated therewith, the method comprising:
- initializing an a workflow action within the schedule;
 - comparing a latency attribute associated with the workflow action and a latency threshold;
 - executing the action if the latency attribute does not exceed the latency threshold; and
 - dehydrating the schedule if the latency attribute exceeds the latency threshold.

31. (Currently amended) The method of claim 30, wherein dehydrating the schedule further comprises storing the schedule state to a storage medium, creating a proxy between the stored schedule state and a message, suspending execution of the schedule pending the expected workflow action, and restoring the schedule and resuming execution of the schedule based on receipt of the message.
32. (Currently amended) A computer-readable medium having computer-executable instructions for:
- initiating [[an]] a workflow action having a latency attribute associated therewith;
 - comparing the latency attribute with a latency threshold; and
 - storing data associated with a schedule in a storage medium based on the latency comparison.
33. (Original) The computer-readable medium of claim 32, having further computer-executable instructions for creating an association between the stored data and a signal.
34. (Original) The computer-readable medium of claim 33, having further computer-executable instructions for suspending execution of the schedule based on the latency comparison.
35. (Original) The computer-readable medium of claim 34, having further computer-executable instructions for selectively de-allocating resources associated with the schedule after suspending execution of the schedule.
36. (Original) The computer-readable medium of claim 34, having further computer-executable instructions for selectively resuming execution of the schedule based on the signal.
37. (Original) The computer-readable medium of claim 35, having further computer-executable instructions for selectively allocating resources to execution of the schedule based on the signal, and selectively resuming execution of the schedule based on the signal.

38. (Currently amended) The computer-readable medium of claim 32, wherein the workflow action further has a compensation parameter associated therewith, having further computer-executable instructions for selectively compensating the workflow action based on the compensation parameter, a transaction boundary within the schedule, and a state associated with another workflow action within the schedule.

39. (Currently amended) The computer-readable medium of claim 32, having further computer-executable instructions for selectively compensating a first workflow action according to a transaction boundary within the schedule and a compensation parameter associated with the first workflow action, based on abortion of a second workflow action within the schedule.

40. (Currently amended) A method of executing a transaction having an associated transaction boundary and [[an]] a workflow action, wherein the workflow action has an action state and a compensation parameter associated therewith, the method comprising:

recognizing a transaction boundary associated with the transaction; and
selectively compensating at least a first workflow action according to the transaction boundary and the compensation parameter based on abortion of a second workflow action.

41. (Cancelled)

42. (Currently amended) The method of claim 40, further comprising selectively compensating at least [[a]] the first workflow action according to the transaction boundary and the compensation parameter upon abortion of [[a]] the second workflow action, and further according to the action state associated with the first workflow action.

43. (Currently amended) The method of claim 42, further comprising selectively compensating at least [[a]] the first workflow action according to the transaction boundary and the compensation parameter upon abortion of [[a]] the second workflow action, if the first workflow action has committed.

44. (Original) The method of claim 43, wherein the compensation step further comprises instantiating at least one object.

45. (Original) The method of claim 43, wherein the compensation step further comprises sending a message.

46. (Currently amended) A computer-readable medium having computer-executable instructions for:

executing a schedule, the schedule comprising a schedule state, at least one workflow action, and at least one transaction with an associated transaction boundary, the workflow action including an action state and a compensation parameter associated therewith;

recognizing the transaction boundary within the schedule; and

selectively compensating at least a first workflow action within the schedule according to a transaction boundary within the schedule, and a compensation parameter associated with the first workflow action based on abortion of a second workflow action.

47. (Cancelled)

48. (Currently amended) The computer-readable medium of claim 46, having further computer-executable instructions for selectively compensating the at least the first workflow action according to the transaction boundary and a compensation parameter associated with the first workflow action upon abortion of the second workflow action, and further according to the action state associated with the first workflow action.

49. (Currently amended) The computer-readable medium of claim 48, having further computer-executable instructions for selectively compensating the at least the first workflow action according to the transaction boundary and the compensation parameter associated with the first workflow action upon abortion of the second workflow action, if the first workflow action has committed.

50. (Currently amended) The computer-readable medium of claim 46, wherein the at least one workflow action includes a latency attribute, and having further computer-executable instructions for selectively storing the schedule state to a storage medium based on a comparison of the latency attribute with a latency threshold.

51. (Currently amended) In the execution of a schedule in a computer system, the schedule comprising a schedule state, [[an]] a workflow action with an associated action state, and at least one inter-business transaction with a transaction boundary, a compensation parameter, a compensation routine, and a transaction state associated therewith, a method of selectively compensating the transaction during the execution of a schedule, comprising:

determining the action state of [[an]] the workflow action;

if the action state is aborted, determining the relationship of the workflow action and the transaction based on a transaction boundary;

if the action state is aborted, and if the workflow action and transaction are related according to the transaction boundary, determining the transaction state of the transaction; and

if the action state is aborted, and if the workflow action and the transaction are related according to the transaction boundary, and if the transaction state is committed, performing an operation according to the compensation routine associated with the transaction.

52. (Currently amended) In the execution of a schedule in a computer system, the schedule comprising a schedule state, first and second transactions with associated transaction boundaries, transaction states, compensation parameters, and compensation routines, and first and second workflow actions with a associated action states, compensation parameters, and compensation routines, a method of selectively compensating [[a]] the first workflow action or transaction during the execution of a schedule, comprising:

determining the state of one of the second workflow action and the second transaction;

if the state of one of the second workflow action and second transaction is aborted, determining the relationship of the first workflow action and transaction with the second workflow action and transaction based on the transaction boundary;

if the state of one of the second workflow action and second transaction is aborted, and if one of the first workflow action and transaction are related to one of the second workflow action and transaction according to the transaction boundary, determining the state of one of the first workflow action and transaction; and

if the state of one of the second workflow action and second transaction is aborted, and if one of the first workflow action and transaction are related to one of the second workflow action and transaction according to the transaction boundary, and if the state of one of the first workflow action and transaction is committed, performing an operation according to the compensation routine associated with one of the first workflow action and transaction.